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(54) ANGIOTENSIN CONVERTING ENZYME INHIBITOR PEPTIDE

(57)Abstract:

PURPOSE: To obtain the title peptide useful for a medicine, a healthy food, etc., effective for remedying and preventing hypertension, showing inhibitory action on angiotensin converting enzyme, having an amino acid sequence of L-phenylalanin-L-aspartic acid-L-lysine.

CONSTITUTION: Cheese whey powder is dissolved in distilled water, adjusted to pH8.0 with sodium hydroxide, mixed with calcium chloride so as to give 5mM final concentration, the prepared solution is warmly kept at 37°C, digested with trypsin for 24 hours while stirring, then the digested solution is adjusted to pH4.5 with hydrochloric acid, unreacted protein and trypsin are precipitated, the precipitate is removed by centrifugal separation, ethanol is added to the solution, protein is further precipitated, supernatant liquid is separated, ethanol is distilled away under reduced pressure, the remaining aqueous solution is successively subjected to gel filtration and high performance liquid chromatography and purified to give the objective peptide containing an amino acid sequence comprising L-phenylalanin-L-aspartic acid-L-lysine.

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